

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,305	03/17/2004	Kevin M. Ferguson	7773 US 3902	
30078 MATTHEW D	7590 07/30/200° . RABDAU	EXAMINER		
TEKTRONIX,	INC.	MAI, TAN V		
14150 S.W. KARL BRAUN DRIVE P.O. BOX 500 (50-LAW)			ART UNIT	PAPER NUMBER
BEAVERTON	OR 97077-0001	2193		
	•		MAIL DATE	DELIVERY MODE
			07/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)				
Office Action Summary		10/802,305	FERGUSON, KEVIN M.				
		Examiner	Art Unit				
		Tan V. Mai	2193				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 21 Ju	une 2007.					
· <u> </u>		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	•					
4)⊠	Claim(s) <u>1-5</u> is/are pending in the application.	•					
	4a) Of the above claim(s) <u>5</u> is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-4</u> is/are rejected.						
· <u> </u>	Claim(s) is/are objected to.						
. 8)∟	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	on Papers	·					
9)□ :	The specification is objected to by the Examine	r.					
10)🛛	The drawing(s) filed on <u>16 July 2004</u> is/are: a)[oxtimes accepted or b) $oxtimes$ objected to b	y the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	, , , , ,					
11)[The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority u	inder 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority document	· ·					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachman	. , , , , , , , , , , , , , , , , , , ,						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
	B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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1. Applicant's election of Species I, Claims 1-4, in Paper dated 6/21/07 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

- 2. The abstract of the disclosure is objected to because the Abstract contains the undefined acronym "IIR". All such acronyms should be defined at the instance of their first use within the Abstract. Correction is required. See MPEP § 608.01(b).
- 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims recite a method / apparatus for performing a mathematical function.

"[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention "transforms" an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,...".

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

In order for claims to be statutory, claims must include a practical application with a concrete, useful, and tangible result. However, claims 1-4 merely disclose elements / steps of performing mathematical function without disclosing a **practical application**

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with a concrete, useful, and tangible result, as they are pre-emptive in any application. Therefore, claims 1-4 are directed to non-statutory subject matter.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Deerfield.

Dearfield teaches, e.g., see Fig. 1, the claimed combination elements. They are: ADDER [which is considered the claimed means for combining] for adding signal XN, output of X(N-1) [which is considered the output of first IIR filter because it is the result of feedback loop via ADDER], and output of X(N-3) [which is considered the output of second IIR filter because it is also the result of feedback loop via ADDER].

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited references are art of interest.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Meng-Ai An, can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is:

Official

(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner

